

LISTINGS OF THE CLAIMS

1. (previously presented) A connection system for connecting a contact of a flat block of components to an apparatus, the connection system comprising:

a conductive connecting element electrically coupled to the contact of the flat block of components; and

a clamping device electrically coupled to the apparatus,

wherein the clamping device receives the connecting element,

wherein the connecting element is a rigid conductor, the rigid conductor being a screw fastened conductively to the contact, and

wherein the screw penetrates a bore in the flat block of components and is locked by a nut on a second side of the flat block of components, which is opposite a first side of the flat block of components.

2. (previously presented) The connection system as defined by claim 1, wherein the flat block of components is a printed circuit board.

3. (cancelled)

4. (previously presented) The connection system as defined by claim 2, further comprising an inverter of a magnetic resonance gradient amplifier, the inverter comprising a rectifier, which is disposed on the printed circuit board and is coupled to the apparatus.

5. (previously presented) The connection system as defined by claim 1, wherein the connection system connects a plurality of contacts of the flat block of components to a plurality of clamping devices, including the clamping device, of the apparatus,

and the connecting element is disposed on the flat block of components in accordance with the disposition of the clamping devices.

6. (previously presented) The connection system as defined by claim 1, wherein the clamping device is a screw terminal or a spring clip.

7. (previously presented) The connection system as defined by claim 1, wherein the connection system is suited to conduct voltages of over 24 volts, currents of over 0.5 ampere, or the combination thereof.

8. (previously presented) A flat block of components comprising:
a contact that is coupled to an apparatus, which is electrically coupled to a clamping device, and
a conductive connecting element electrically coupled to the contact,
wherein the conductive connecting is a rigid conductor, the rigid conductor being a screw fastened electrically to the contact,
wherein the screw penetrates a bore in the flat block of components and is locked by a nut on a second side of the flat block of components, which is opposite a first side of the flat block of components, and
wherein the connecting element is directly coupled to the clamping device of the apparatus.

9 – 14. (cancelled)

15. (previously presented) The connection system as defined by claim 1, wherein the clamping device is disposed directly on the apparatus or coupled to the apparatus via a separate securing robot electrically coupled to the apparatus.

16. (previously presented) The connection system as defined by claim 8, wherein a plurality of securing robots are disposed in a row on a distributor busbar.

17. (previously presented) The connection system as defined by claim 16, wherein the apparatus is a transformer that furnishes a potential-free supply voltage for full bridge inverters of a magnetic resonance gradient amplifier.

18. (previously presented) The connection system as defined by claim 1, wherein the connecting element directly engages the clamping device of the apparatus.

19. (previously presented) The connection system as defined by claim 1, wherein the screw has a head which is electrically coupled with the contact on the first side of the flat block of components.

20. (previously presented) The connection system as defined by claim 1, wherein the nut is electrically coupled with the contact on the second side of the flat block of components.

21. (previously presented) The connection system as defined by claim 19, wherein the head of the screw is soldered or welded to the contact.

22. (previously presented) The connection system as defined by 1, wherein the nut is soldered or welded to the contact.

23. (cancelled)

24. (previously presented) The flat block of components as defined by claim 8, wherein the flat block of components is a printed circuit board.

25. (previously presented) The flat block of components as defined by claim 24, further comprising an inverter of a magnetic resonance gradient amplifier, the inverter comprising a rectifier which is disposed on the printed circuit board and is connected to the apparatus.

26. (previously presented) The flat block of components as defined by claim 8, wherein the screw has a head that is electrically coupled with the contact on the first side of the flat block of components.

27. (previously presented) The flat block of components as defined by claim 8, wherein the nut is electrically coupled with the contact on the second side of the flat block of components.

28. (previously presented) The flat block of components as defined by claim 26, wherein the head of the screw is soldered or welded to the contact.

29. (previously presented) The flat block of components as defined claim 27, wherein the nut is soldered or welded to the contact.